ROLLER SYSTEM FOR FLATTENING IRREGULARLY SHAPED, BENT PIECES OF SCRAP SHEET METAL

ABSTRACT OF THE DISCLOSURE

A roller system for flattening irregularly shaped pieces of scrap sheet metal comprises a pair of parallel, horizontally arranged large rollers forming a downwardly converging nip between them. Each roller is formed of curved steel sheets bent to form a cylindrical shape for the rollers. A series of curved, steel liner plates overlay and cover the surfaces of the cylinders. The plates are made of a harder material than the steel sheets. The liner plates on each cylinder are arranged end-to-end and are mechanically fastened to their respective rollers so that the opposite ends of the plates provide a leading edge and a trailing edge. The trailing edge of each plate is chamfered and is arranged against a generally radially directed, blunt edge surface of the leading end of the next plate to form a roughly triangularly shaped in cross-section groove extending longitudinally of the exterior surface of the rollers. One of the rollers is elevated relative to the other roller and pieces of scrap metal are dropped along a chute arranged at an angle to the vertical into the converging nip for squeezing the pieces flat as they pass through the nip between the rollers.